

<b>E 9107</b>
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B.Sc. (Applied Science) DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Third Semester

Apparel and Fashion Technology

FT 3.5 — FABRIC STRUCTURE AND DESIGN

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the properties of a crepe fabric?
2. What is the purpose of constructing the peg plan?
3. Give the interlacement diagram of regular warp rib 2 × 8.
4. Mention any two differences between Ordinary honeycomb and Brighton honeycomb.
5. How are various tints and shades of a colour produced?
6. What is the purpose of binding in extra figuring?
7. Write short note on float stitch.
8. What is the effect of tuck stitch on fabric properties?
9. What are the advantages of backed fabrics?
10. Give the design of 4 pick terry weave with piles on both sides of fabric.

PART B — (5 × 16 = 80 marks)

11. (i) Draw the diagrammatic and symbolic representation of simple rib (1 × 1 Rib) and discuss about the features and properties of rib fabric. (8)
- (ii) Write short note on jacquard designs. (4)
- (iii) Write short note on the methods to create stripe designs in knitting. (4)

12. (a) Give the design of
- (i) 2/2 pointed twill
  - (ii) 8 end irregular satin with step number 2
  - (iii) Crepe weave based on insertion of one weave on another
  - (iv) Herringbone 3/3 twill. (4 × 4)

Or

- (b) Give the
- (i) Interlacement diagram of 2/1 twill
  - (ii) Design of irregular mat of order 6 × 10
  - (iii) Design of Crepe weave based on reversing of motif of order 6 × 6
  - (iv) Design of 4 end irregular satin and sateen. (4 × 4)
13. (a) Construct twill faced wadded Bedford cord having uniform cord width with base twill as 3/3. The base twill repeats 3 times in a cord with 2 wadding ends in each cord of the repeat. Construct the draft.

Or

- (b) Discuss with suitable design on
- (i) 12 × 12 ordinary and Brighton honeycomb weave. (2 × 4)
  - (ii) Huck-a-back (4)
  - (iii) Mock leno. (4)
14. (a) Discuss about :
- (i) Pigment theory of colours (8)
  - (ii) Colour and weave effect. (8)

Or

- (b) Construct an extra warp figuring design in which the motif is of order 9 × 9 with two colours. The ground is plain and G:F::2:1. Show the bindings on the design.
15. (a) (i) Construct a reversible warp backed structure to produce 3 up, 1 down twill on both sides of the cloth. (10)
- (ii) Write short note on fastness of pile. (6)

Or

- (b) (i) Give the design of plain back velveteen with pile as 1/2 twill. Assume G:F::1:3. Draw the cut and uncut cross sectional diagram. (12)
- (ii) Write short note on wire pile fabrics. (4)